



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 123036**

**TO: Olga Chernyshev**  
**Location: REM-4E84/4C70**  
**Art Unit: 1646**  
**Friday, June 04, 2004**

**Case Serial Number: 10/099880**

**From: Peggy Ruppel**  
**Location: Biotech-Chem Library**  
**REMSSEN 1B65**  
**Phone: 571-272-2557**

**Peggy.Ruppel@uspto.gov**

### **Search Notes**

The results for your search request are attached. Most of the records related to the use of anti-beta-amyloid antibodies for the treatment of Alzheimer's, so I selected only those records that were either ambiguous in their content or specified the relationship of the antibody levels to diagnosis.

Please let me know if you have any comments or questions.

Thank you for using STIC services.

=> b zcaplus

FILE 'ZCAPLUS' ENTERED AT 13:28:44 ON 04 JUN 2004

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FILE COVERS 1907 - 4 Jun 2004 VOL 140 ISS 24

FILE LAST UPDATED: 3 Jun 2004 (20040603/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que l22

L2	(	165834)	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	ANTIBODIES/CT
L4	(	16634)	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	ALZHEIMER?/CT,CW
L10		1035	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	107761-42-2/RN
L13		1002	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L10(L) (ANST OR ANT OR ARG OR ARU OR USES OR BUU OR DGN OR BIOL)/RL
L14		57	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L13 AND L2
L15		43	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L4 AND L14
L16		18	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L15 AND P/DT
L17		18	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	(ANTI(W) BETA(W) AMYLOID?) (2A) AN TIBOD?
L20		8	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L17 AND P/DT
L21		26	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L20 OR L16
L22		22	SEA	FILE=ZCAPLUS	ABB=ON	PLU=ON	L21 AND (PY<=2001 OR PRY<=2001 OR AY<=2001)

=> b medline

FILE 'MEDLINE' ENTERED AT 13:28:56 ON 04 JUN 2004

FILE LAST UPDATED: 3 JUN 2004 (20040603/UP). FILE COVERS 1951 TO DATE.

On February 29, 2004, the 2004 MeSH terms were loaded. See HELP RLOAD for details. OLDMEDLINE now back to 1951.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See <http://www.nlm.nih.gov/mesh/> and [http://www.nlm.nih.gov/pubs/techbull/nd03/nd03\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd03/nd03_mesh.html) for a description of changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 129

```
L23      5725 SEA FILE=MEDLINE ABB=ON  PLU=ON  AMYLOID BETA-PROTEIN/CT
L24      61360 SEA FILE=MEDLINE ABB=ON  PLU=ON  ANTIBODIES/CT,CW
L25      2583 SEA FILE=MEDLINE ABB=ON  PLU=ON  L24 (L) BL
L26      10 SEA FILE=MEDLINE ABB=ON  PLU=ON  L23 AND L25
L27      32098 SEA FILE=MEDLINE ABB=ON  PLU=ON  ALZHEIMER DISEASE/CT
L28      5395 SEA FILE=MEDLINE ABB=ON  PLU=ON  L27 (L) DI
L29      0 SEA FILE=MEDLINE ABB=ON  PLU=ON  L26 AND L28
```

=> b embase

FILE 'EMBASE' ENTERED AT 13:29:08 ON 04 JUN 2004  
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FILE COVERS 1974 TO 4 Jun 2004 (20040604/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d que 151

```
L31      7077 SEA FILE=EMBASE ABB=ON  PLU=ON  AMYLOID BETA PROTEIN/CT,CW
L32      168331 SEA FILE=EMBASE ABB=ON  PLU=ON  D4.680.350./CT
L35      25 SEA FILE=EMBASE ABB=ON  PLU=ON  (AMYLOID (A) PROTEIN) (2A) ANTIBOD?

L36      168331 SEA FILE=EMBASE ABB=ON  PLU=ON  L31 OR L32
L37      37899 SEA FILE=EMBASE ABB=ON  PLU=ON  ANTIBODY/CT,CW
L38      2920 SEA FILE=EMBASE ABB=ON  PLU=ON  L37 AND L36
L39      2944 SEA FILE=EMBASE ABB=ON  PLU=ON  L35 OR L38
L40      39635 SEA FILE=EMBASE ABB=ON  PLU=ON  ALZHEIMER DISEASE/CT
L41      6482 SEA FILE=EMBASE ABB=ON  PLU=ON  L40 (L) DI
L42      16 SEA FILE=EMBASE ABB=ON  PLU=ON  L39 AND L41
L51      11 SEA FILE=EMBASE ABB=ON  PLU=ON  L42 AND PY<=2001
```

=> b biosis

FILE 'BIOSIS' ENTERED AT 13:29:15 ON 04 JUN 2004  
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FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 2 June 2004 (20040602/ED)

FILE RELOADED: 19 October 2003.

=> d que 150

```
L43      109 SEA FILE=BIOSIS ABB=ON  PLU=ON  ("BETA AMYLOID"/CT OR "BETA
      AMYLOID -40"/CT OR "BETA AMYLOID -42"/CT OR "BETA AMYLOID
      1-40"/CT OR "BETA AMYLOID 1-42"/CT) OR "BETA AMYLOID 42"/CT OR
      ("BETA AMYLOID PEPTIDE"/CT OR "BETA AMYLOID PEPTIDE 1-40"/CT
      OR "BETA AMYLOID PEPTIDE 1-42"/CT) OR "BETA AMYLOID PEPTIDES"/C
      T OR ("BETA AMYLOID PRECURSOR"/CT OR "BETA AMYLOID PRECURSOR
      PROTEIN"/CT) OR ("BETA AMYLOID-1-40"/CT OR "BETA AMYLOID-1-42"/
      CT)

L44      1 SEA FILE=BIOSIS ABB=ON  PLU=ON  "BETA AMYLOID ANTIBODIES"/CT
L45      31694 SEA FILE=BIOSIS ABB=ON  PLU=ON  ANTIBODIES/CT,CW
L46      5 SEA FILE=BIOSIS ABB=ON  PLU=ON  L43 AND L45
```

L47 5 SEA FILE=BIOSIS ABB=ON PLU=ON L44 OR L46  
L48 19378 SEA FILE=BIOSIS ABB=ON PLU=ON ALZHEIMER DISEASE/CT,CW  
L49 3 SEA FILE=BIOSIS ABB=ON PLU=ON L47 AND L48  
L50 1 SEA FILE=BIOSIS ABB=ON PLU=ON L49 AND PY<=2001

=> dup rem 150 129 151 122

L29 HAS NO ANSWERS

FILE 'BIOSIS' ENTERED AT 13:29:58 ON 04 JUN 2004

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FILE 'EMBASE' ENTERED AT 13:29:58 ON 04 JUN 2004

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FILE 'ZCAPLUS' ENTERED AT 13:29:58 ON 04 JUN 2004

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PROCESSING COMPLETED FOR L50

PROCESSING COMPLETED FOR L29

PROCESSING COMPLETED FOR L51

PROCESSING COMPLETED FOR L22

L52 34 DUP REM L50 L29 L51 L22 (0 DUPLICATES REMOVED)

=> => d all 152 6 7 8 9 11 12 17 24 27 30 33 34

YOU HAVE REQUESTED DATA FROM FILE 'ZCAPLUS, BIOSIS, EMBASE' - CONTINUE? (Y)/N:y

L52 ANSWER 6 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:281947 ZCAPLUS

DN 138:270300

ED Entered STN: 11 Apr 2003

TI Anti-amyloid beta-derived diffusible ligand (ADDL) antibodies and uses thereof

IN Klein, William L.; Krafft, Grant A.; Lambert, Mary P.; Viola, Kirsten L.; Chromy, Brett A.; Gong, Yue Song; Chang, Lei; Morgan, Todd E.; Rozofsky, Irina; Finch, Caleb E.

PA USA

SO U.S. Pat. Appl. Publ., 53 pp., Cont.-in-part of U.S. Ser. No. 369,236.  
CODEN: USXXCO

DT **Patent**

LA English

IC ICM A61K039-395

NCL 424130100

CC 15-3 (Immunochemistry)

Section cross-reference(s): 1, 14

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003068316	A1	20030410	US 2002-166856	20020611 <--
	US 6218506	B1	20010417	US 1997-796089	19970205 <--
	WO 2003104437	A2	20031218	WO 2003-US19640	20030611
	WO 2003104437	A3	20040226		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2004091492 A2 20040325 JP 2003-343836 20031001 <--  
PRAI US 1997-796089 A2 19970205 <--  
US 1998-95264P P 19980804 <--  
US 1999-369236 A2 19990804 <--  
JP 1998-533262 A3 19980205 <--  
US 2002-166856 A 20020611

AB The invention herein comprises antibodies that bind to amyloid beta-derived diffusible ligands (ADDLs). ADDLs comprise amyloid  $\beta$  protein assembled into soluble, globular, non-fibrillar, oligomeric structures capable of activating specific cellular processes. The invention also comprises methods of using ADDL-specific antibodies for assaying the formation, presence, receptor protein binding and cellular activity of ADDLs, as well as using such antibodies to detect compds. that block the formation or activity of ADDLs, and methods of identifying such compds. The invention further provides methods of using ADDL-specific antibodies in modulating ADDL formation and/or activity, inter alia in the treatment of learning and/or memory disorders.

ST Alzheimers disease diagnosis therapy amyloid beta antibody;  
neurodegenerative disease diagnosis therapy amyloid beta antibody

IT Immunoglobulins  
RL: ARG (Analytical reagent use); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(G; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Neuroglia  
(activation; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT **Alzheimer's disease**  
Cerebrospinal fluid  
Diagnosis  
Drug screening  
Human  
Signal transduction, biological  
(anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT **Antibodies**  
RL: ARG (Analytical reagent use); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Nervous system, disease  
(degeneration; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Memory, biological  
(disorder; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Receptors  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(for ADDL; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Neurotransmission  
(long-term potentiation; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Nerve  
(neuron; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Toxicity  
(neurotoxicity; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Nerve  
(toxicity; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Peptides, biological studies  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(tryptic; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT Amyloid  
RL: ADV (Adverse effect, including toxicity); DGN (Diagnostic use); BIOL (Biological study); USES (Uses)  
( $\beta$ -; anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT 107761-42-2, Amyloid  $\beta$  1-42  
RL: ADV (Adverse effect, including toxicity); DGN (Diagnostic use); BIOL (Biological study); USES (Uses)  
(anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT 141349-87-3, Fyn tyrosine kinase  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

IT 303-45-7, Gossypol  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(anti-ADDL antibodies and their use in therapy, diagnosis, and drug screening for Alzheimer's disease and other neurodegenerative diseases)

L52 ANSWER 7 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:4867 ZCAPLUS

DN 138:35750

ED Entered STN: 03 Jan 2003

TI Monoclonal antibody mbAb 1E8 that is specific for the first two amino-terminal amino acids of beta-amyloid peptides and its use in the detection of beta-amyloid peptides and sAPPA in brain tissues and body fluids

IN Wiltfang, Jens; Dyrks, Thomas; Moenning, Ursula

PA Germany

SO Eur. Pat. Appl., 82 pp.  
CODEN: EPXXDW

DT **Patent**

LA German

IC ICM C07K016-18  
ICS G01N033-561; G01N033-539; G01N033-577; G01N033-541; G01N033-68; G01N033-50

CC 9-10 (Biochemical Methods)  
 Section cross-reference(s): 14, 15

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1270592	A1	20030102	EP 2001-114192	20010612 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003166019	A1	20030904	US 2002-170272	20020611 <--
PRAI	EP 2001-114192	A	20010612	<--	
AB	The invention concerns the monoclonal antibody that is specific for the first two amino-terminal amino acids of beta-amyloid peptides and its use in the detection of beta-amyloid peptides and $\beta$ -amyloid precursor protein (sAPPA) in a western immunoblot procedure. The monoclonal antibody can be radiolabeled. Body fluid samples are treated in a denaturalizing medium followed by electrophoresis; mbAb 1E8 is used for identifying A $\beta$ 1-37, A $\beta$ 1-38, A $\beta$ 1-39, A $\beta$ 1-40, A $\beta$ 1-42.				
ST	monoclonal antibody beta amyloid peptide western blot Alzheimers disease				
IT	Immunoassay (immunoblotting; monoclonal antibody mbAb 1E8 that is specific for first two amino-terminal amino acids of beta-amyloid peptides and its use in detection of beta-amyloid peptides and sAPPA in brain tissues and body fluids)				
IT	<b>Alzheimer's disease</b> Blood analysis Blood plasma Body fluid Brain Cerebrospinal fluid Human (monoclonal antibody mbAb 1E8 that is specific for first two amino-terminal amino acids of beta-amyloid peptides and its use in detection of beta-amyloid peptides and sAPPA in brain tissues and body fluids)				
IT	Amyloid precursor proteins RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (monoclonal antibody mbAb 1E8 that is specific for first two amino-terminal amino acids of beta-amyloid peptides and its use in detection of beta-amyloid peptides and sAPPA in brain tissues and body fluids)				
IT	<b>Antibodies</b> RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (monoclonal, mbAb 1E8; monoclonal antibody mbAb 1E8 that is specific for first two amino-terminal amino acids of beta-amyloid peptides and its use in detection of beta-amyloid peptides and sAPPA in brain tissues and body fluids)				
IT	Amyloid RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) ( $\beta$ -; monoclonal antibody mbAb 1E8 that is specific for first two amino-terminal amino acids of beta-amyloid peptides and its use in detection of beta-amyloid peptides and sAPPA in brain tissues and body fluids)				
IT	107761-42-2, Amyloid $\beta$ 1-42 115427-62-8 131438-74-9 131438-79-4, $\beta$ -Amyloid peptide 1-40 186359-67-1 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES				

**(Uses)**

(monoclonal antibody mbAb 1E8 that is specific for first two amino-terminal amino acids of beta-amyloid peptides and its use in detection of beta-amyloid peptides and sAPPa in brain tissues and body fluids)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE

- (1) Arai, T; BRAIN RESEARCH 1999, 1/2
- (2) Chevallier, N; BRAIN RESEARCH 1997, 1/2
- (3) Klafki, H; ANALYTICAL BIOCHEMISTRY 1996
- (4) Saido, T; THE JOURNAL OF BIOLOGICAL CHEMISTRY 1994, 21, ZCAPLUS
- (5) Wiltfang, J; ELECTROPHORESIS 1997

L52 ANSWER 8 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:736057 ZCAPLUS

DN 137:246514

ED Entered STN: 27 Sep 2002

TI Anti-amyloid antibody based diagnosis and treatment of a neurological disease or disorder

IN Weksler, Marc E.; Szabo, Paul

PA Cornell Research Foundation, Inc., USA

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT **Patent**

LA English

IC ICM A61K

CC 15-1 (Immunochemistry)

Section cross-reference(s): 1, 14

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002074240	A2	20020926	WO 2002-US7883	20020315 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2001-276659P P 20010316 <--

AB The invention provides a method for assessing risk of a neurodegenerative disease or disorder in a subject. The method comprises comparing a level of anti-amyloid peptide antibody in a biol. sample from a subject to a normal level, wherein a lower level in the biol. sample from the subject indicates the presence of the disease or disorder. In a specific embodiment, the disease or disorder is Alzheimer's Disease (AD); in a further specific embodiment, the amyloid peptide is  $\beta$ -amyloid-42 (A $\beta$ 42). In addition, the discovery that certain neurodegenerative diseases or disorders are associated with a deficiency of anti-amyloid antibodies provides a method of treating of treating such a disease or disorder in a subject. This method comprises administering a therapeutically effective amount of a human anti-amyloid peptide antibody to a subject believed to suffer from the immune deficiency or disorder. For example, the disease or disorder can be Alzheimer's Disease (AD). In such an embodiment, the amyloid peptide can be  $\beta$ -amyloid-42 (A $\beta$ 42).

ST amyloid antibody diagnosis neurol disease disorder

IT Apolipoproteins

RL: BSU (Biological study, unclassified); BIOL (Biological study)



- (E4; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Immunoglobulins  
 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (G; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Aging, animal  
**Alzheimer's disease**  
 Biological materials  
 Blood  
 Blood analysis  
 Blood plasma  
 Blood serum  
 Brain  
 Diagnosis  
 Drugs  
 Human  
 Immunoassay  
 Immunodeficiency  
 Nervous system, disease  
 (anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Immunoglobulins  
 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT **Antibodies**  
 RL: ANT (Analyte); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Amyloid  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Mental disorder  
 (cognitive; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Nervous system, disease  
 (degeneration; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Cognition  
 Memory, biological  
 (disorder; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT Immunoassay  
 (enzyme-linked immunosorbent assay; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT **Alzheimer's disease**  
 (familial; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT **Antibodies**  
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
 (monoclonal; anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)
- IT **107761-42-2**, Glycopeptide (human clone 9-110 amyloid A4 peptide moiety)  
 RL: BSU (Biological study, unclassified); **BIOL (Biological study)**

(anti-amyloid antibody based diagnosis and treatment of a neurol. disease or disorder)

L52 ANSWER 9 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:465724 ZCAPLUS

DN 137:46063

ED Entered STN: 21 Jun 2002

TI  $\beta$ -Secretase transgenic mouse and anti- $\beta$ -secretase antibodies:  
diagnosis and therapy of Alzheimer's disease

IN Wong, Philip C.; Cai, Huabin; Price, Donald L.

PA The Johns Hopkins University School of Medicine, USA

SO PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DT **Patent**

LA English

IC C07K

CC 15-3 (Immunochemistry)

Section cross-reference(s): 1, 7, 14

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002047466	A2	20020620	WO 2001-US50771	20011029 <--
	WO 2002047466	A3	20030123		
	W: AM, AT, BA, BR, BY, BZ, CH, CN, CU, CZ, DK, DM, ES, FI, GB, HR, HU, ID, IL, IN, KG, KR, LK, LR, LT, LU, MD, MG, MW, PH, PL, RO, RU, SD, SE, SI, SK, TJ, TM, TR, TT, TZ, VN, ZA, AM, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, BE, CY, DK, ES, FI, GB, GR, IE, NL, PT, CG, CI, GA, GN, MR, NE, SN, TD, TG				
	AU 2002043391	A5	20020624	AU 2002-43391	20011029 <--
PRAI	US 2000-244051P	P	20001027 <--		
	US 2000-708096	A	20001103 <--		
	WO 2001-US50771	W	20011029 <--		
AB	The authors disclose the preparation and characterization of transgenic mice which harbor a transgene that eliminates the expression of the $\beta$ -secretase, BACE1. In addition, antibodies specific for BACE1 are provided. The transgenic mice may be suitable for diagnosing a neurodegenerative disease, including Alzheimer's disease, and for identifying agents that modulate or treat Alzheimer's disease.				
ST	beta secretase antibody Alzheimer disease; amyloid precursor processing beta secretase neuron				
IT	Transgene				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
	(antisense; for $\beta$ -secretase)				
IT	Amyloidosis				
	(detection and inhibition of $\beta$ -secretase activity in transgenic animal with)				
IT	Human				
	(detection of $\beta$ -secretase activity in diagnosis and treatment of Alzheimer's disease)				
IT	Blood analysis				
	Cerebrospinal fluid				
	PCR (polymerase chain reaction)				
	(detection of $\beta$ -secretase activity in diagnosis of Alzheimer's disease)				
IT	Memory, biological				
	(disorder; detection and inhibition of $\beta$ -secretase activity in transgenic animal with expression of)				
IT	Amyloid precursor proteins				
	RL: ADV (Adverse effect, including toxicity); ANT (Analyte); ANST				

(Analytical study); BIOL (Biological study)  
 (expression in transgenic animal and inhibition of  $\beta$ -secretase-mediated processing of)

IT Test kits  
 (for detection of  $\beta$ -secretase and amyloid peptides)

IT Retroviral vectors  
 (for gene targeting of  $\beta$ -secretase in embryonic stem cells)

IT Drug screening  
 (for inhibitors of  $\beta$ -secretase)

IT Immunoassay  
 (for  $\beta$ -secretase in diagnosis of Alzheimer's disease)

IT mRNA  
 RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (for  $\beta$ -secretase in diagnosis of Alzheimer's disease)

IT Immunoglobulins  
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (fragments; to amyloid peptides)

IT Gene targeting  
 (gene knock-out; of BACE1 in mouse)

IT Antisense DNA  
 Antisense RNA  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (inhibition of  $\beta$ -secretase by)

IT Anti-**Alzheimer's** agents  
 (inhibitors of  $\beta$ -secretase)

IT **Antibodies**  
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (labeled; to amyloid peptides)

IT **Antibodies**  
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (monoclonal; to  $\beta$ -secretase)

IT Nerve  
 (neuron, cortical;  $\beta$ -secretase expression and amyloid precursor processing in)

IT Diagnosis  
 (of Alzheimer's disease by detection of  $\beta$ -secretase activity)

IT Bioassay  
 (of  $\beta$ -secretase activity in transgenic animal)

IT Embryo, animal  
 (stem cell; prepare of transgenic animal by gene targeting of  $\beta$ -secretase in)

IT Aves  
 Capra  
 Cattle  
 Mouse  
 Sheep  
 Swine  
 (targeted knockout of BACE1  $\beta$ -secretase gene in)

IT **Antibodies**  
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (to  $\beta$ -secretase)

IT 158736-49-3,  $\beta$ -Secretase  
 RL: ADV (Adverse effect, including toxicity); DGN (Diagnostic use); BIOL

(Biological study); USES (Uses)  
 (inhibition of amyloid peptide production by)  
 IT 107761-42-2, Glycopeptide (human clone 9-110 amyloid A4 peptide moiety) 131438-79-4 157802-70-5 338458-53-0  
 RL: ADV (Adverse effect, including toxicity); ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (inhibition of  $\beta$ -secretase-mediated production of)  
 IT 437973-94-9 437973-95-0 437973-96-1  
 RL: PRP (Properties)  
 (unclaimed nucleotide sequence;  $\beta$ -Secretase transgenic mouse and anti- $\beta$ -secretase antibodies, diagnosis and therapy of Alzheimer's disease)

L52 ANSWER 11 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:449710 ZCAPLUS  
 DN 137:17435  
 ED Entered STN: 14 Jun 2002  
 TI Compositions and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease  
 IN Chojkier, Mario; Buck, Martina  
 PA USA  
 SO PCT Int. Appl., 53 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07K014-47  
 ICS G01N033-53; C07K016-18  
 CC 9-10 (Biochemical Methods)  
 Section cross-reference(s): 1, 14, 15

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046222	A2	20020613	WO 2001-US43676	20011121 <--
	WO 2002046222	A3	20030508		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2002137112	A1	20020926	US 2000-731460	20001207 <--
	US 6495335	B2	20021217		
	AU 2002019824	A5	20020618	AU 2002-19824	20011121 <--
	EP 1339743	A2	20030903	EP 2001-999575	20011121 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	US 2003104488	A1	20030605	US 2002-278181	20021021 <--
PRAI	US 2000-731460	A	20001207 <--		
	WO 2001-US43676	W	20011121 <--		
AB	The present invention provides methods and compns. for the diagnosis of Alzheimer's disease. In particular, the present invention provides modified beta-amyloid peptides, antibodies that specifically bind to the modified beta-amyloid peptides, and methods for using these compns. in the diagnosis of Alzheimer's disease, as well as methods to monitor treatment and/or disease progression of Alzheimer's disease in patients. The present invention also provides compns. and methods useful in research				

- involving amyloid precursor protein (APP) metabolism and Alzheimer's disease.
- ST diagnosing Alzheimer disease modified beta amyloid peptide; antibody modified beta amyloid peptide Alzheimer disease
- IT Brain  
(anal. of tissue of; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Antiserums  
Ascitic fluid  
Cerebrospinal fluid  
(anal. of; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Antibodies**  
RL: ANT (Analyte); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(autoantibodies; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Brain  
(cerebral cortex, anal. of tissue of; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Immunoassay  
(competitive, ELISA; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Alzheimer's disease**  
Blood analysis  
Diagnosis  
Human  
Test kits  
(compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Antibodies**  
RL: ANT (Analyte); ARG (Analytical reagent use); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Amyloid precursor proteins  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Hybridoma  
(conditioned culture medium, anal. of; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Enzymes, biological studies  
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(conjugates, with antibody; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Antibodies**  
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(conjugates; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Hemocyanins  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(conjugation with modified peptide; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing

- Alzheimer's disease)
- IT Immunoassay  
(enzyme-linked immunosorbent assay; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Alzheimer's disease**  
(familial; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Antibodies**  
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(immobilized; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Immunoassay  
(immunoblotting; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Anti-**Alzheimer's** agents  
(monitoring treatment with; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Peptides, analysis  
RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(of modified  $\beta$ -amyloid; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Body fluid  
(serous fluid, anal. of; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Alzheimer's disease**  
(sporadic; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Alzheimer's disease**  
(type I; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **Alzheimer's disease**  
(type II; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT Amyloid  
RL: ANT (Analyte); ARG (Analytical reagent use); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
( $\beta$ -, modified peptides; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT **107761-42-2**, Glycopeptide (human clone 9-110 amyloid A4 peptide moiety)  
RL: BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); **BIOL (Biological study)**; RACT (Reactant or reagent)  
(amino acid sequence; compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT 542-78-9D, Malondialdehyde, adducts with  $\beta$ -amyloid peptide  
RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(compns. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)
- IT 9001-78-9D, conjugates with antibody 9002-13-5D, Urease, conjugates with antibody 9003-99-0D, Peroxidase, conjugates with antibody 9031-11-2D,

$\beta$ -Galactosidase, conjugates with antibody 9032-08-0D, Glucoamylase, conjugates with antibody  
 RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(comps. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)

IT 107761-42-2DP, Glycopeptide (human clone 9-110 amyloid A4 peptide moiety), adducts with malondialdehyde

RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(comps. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)

IT 56-87-1D, L-Lysine, adducts with Malondialdehyde

RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(in modified  $\beta$ -amyloid peptide; comps. and methods based on modified beta-amyloid peptides and antibodies for diagnosing Alzheimer's disease)

L52 ANSWER 12 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:185445 ZCAPLUS

DN 136:246397

ED Entered STN: 15 Mar 2002

TI Chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases

IN Nicolau, Yves Claude

PA Aventis Pharma S.A., Fr.; Universite Louis Pasteur

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DT **Patent**

LA English

IC ICM G01N033-68

CC 15-3 (Immunochemistry)

Section cross-reference(s): 3, 9

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002021141	A2	20020314	WO 2001-US27632	20010906	<--
	WO 2002021141	A3	20030116			
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2001090638	A5	20020322	AU 2001-90638	20010906	<--
	US 2002156036	A1	20021024	US 2001-948049	20010906	<--
	EP 1317479	A2	20030611	EP 2001-970656	20010906	<--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRAI	US 2000-230391P	P	20000906			<--
	US 2000-255033P	P	20001212			<--
	WO 2001-US27632	W	20010906			<--

AB The present invention generally relates to the detection, treatment or

prevention of disease states. Specifically, the present invention relates to the detection, treatment or prevention of amyloidosis or amyloid-associated diseases. The present invention further comprises methods and compns. comprising therapeutic vaccines, antisera and mol. constructs, comprising expression vectors and fusion proteins encoded therein. The fusion proteins comprise light chain variable domain of monoclonal antibody 6C6 recognizing  $\beta$ -amyloid epitope and capable of solubilizing  $\beta$ -amyloid fibers and tangles. The fusion proteins also comprise fragment of transferrin capable of crossing blood brain barrier.

ST  
IT

Amyloid

RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)

(A; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Immunoglobulins

RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)

(AL (amyloid light-chain); chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Brain, disease

Prion diseases

(Creutzfeldt-Jakob; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Apolipoproteins

RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)

(E4, allele; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Amyloidosis

(Gertsman-Straussler-Scheinker syndrome; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Parkinson's disease

(Guamanian parkinsonism-dementia; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Amyloidosis

(Muckle-Wells syndrome; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Aging, animal

(accelerated; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT

Immunostimulants

(adjuvants; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and



- transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Disease, animal  
(amyloid-associated; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Heart, disease  
(amyloidosis, familial; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Brain, disease  
(amyloidosis, senile; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Heart, disease  
(amyloidosis; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Amyloidosis  
(atrial; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Alzheimer's disease  
Amyloidosis  
Animal  
Antiserums  
Blood-brain barrier  
DNA sequences  
Deafness  
Down's syndrome  
Endocrine system, neoplasm  
Epitopes  
Genetic vectors  
Human  
Molecular cloning  
Multiple myeloma  
Multiple sclerosis  
Protein sequences  
Thyroid gland, neoplasm  
Urticaria  
Vaccines  
(chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Gelsolin  
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)  
(chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Antibodies  
Fusion proteins (chimeric proteins)  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

- (chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Transferrins  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Artery, disease  
 (coronary; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Nervous system, disease  
 (degeneration; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Mental disorder  
 (diffuse Lewy body disease; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Immunoassay  
 (enzyme-linked immunosorbent assay; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Amyloidosis  
 (familial Mediterranean fever; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Fever and Hyperthermia  
 (familial Mediterranean; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Kidney, disease  
 (familial amyloid nephropathy; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Amyloidosis  
 (familial amyloidotic polyneuropathy, type IV; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Amyloidosis  
 (familial amyloidotic polyneuropathy; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Immunoglobulins  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (fragments; chimeric antibody comprising fragment of **anti-**

- $\beta$  -**amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Dialysis  
(hemodialysis, chronic; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Amyloidosis  
(hereditary, cerebral hemorrhage type, Dutch type; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Amyloidosis  
(hereditary; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Pancreatic islet of Langerhans, neoplasm  
(insulinoma, amylin; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Immunoglobulins  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(light chain; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Drug delivery systems  
(liposomes; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Macroglobulins  
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)  
(macroglobulinemia; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Brain, disease  
Prion diseases  
(mad cow; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Thyroid gland, neoplasm  
(medullary carcinoma; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Antibodies  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(monoclonal; chimeric antibody comprising fragment of **anti- $\beta$  -amyloid** monoclonal **antibody** 6C6 and

- transferrin fragment for treating and diagnosing amyloidosis-associated diseases)
- IT Lipid A  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (monophosphates; chimeric antibody comprising fragment of **anti**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6  
 and transferrin fragment for treating and diagnosing  
 amyloidosis-associated diseases)
- IT Diabetes mellitus  
 Diabetes mellitus  
 (non-insulin-dependent; chimeric antibody comprising fragment of  
 $\text{anti-}\beta$  -**amyloid** monoclonal  
**antibody** 6C6 and transferrin fragment for treating and  
 diagnosing amyloidosis-associated diseases)
- IT Paralysis  
 (pseudobulbar; chimeric antibody comprising fragment of **anti-**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6 and  
 transferrin fragment for treating and diagnosing amyloidosis-associated  
 diseases)
- IT Brain, disease  
 Prion diseases  
 (scrapie; chimeric antibody comprising fragment of **anti-**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6 and  
 transferrin fragment for treating and diagnosing amyloidosis-associated  
 diseases)
- IT Amyloidosis  
 (secondary; chimeric antibody comprising fragment of **anti-**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6 and  
 transferrin fragment for treating and diagnosing amyloidosis-associated  
 diseases)
- IT Amyloidosis  
 (senile, cardiac; chimeric antibody comprising fragment of **anti**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6  
 and transferrin fragment for treating and diagnosing  
 amyloidosis-associated diseases)
- IT Amyloidosis  
 (senile; chimeric antibody comprising fragment of **anti-**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6 and  
 transferrin fragment for treating and diagnosing amyloidosis-associated  
 diseases)
- IT Head, disease  
 (trauma; chimeric antibody comprising fragment of **anti-**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6 and  
 transferrin fragment for treating and diagnosing amyloidosis-associated  
 diseases)
- IT Amyloid  
 RL: ADV (Adverse effect, including toxicity); BPN (Biosynthetic  
 preparation); BSU (Biological study, unclassified); DGN (Diagnostic use);  
 THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 ( $\beta$ -; chimeric antibody comprising fragment of **anti-**  
 $\beta$  -**amyloid** monoclonal **antibody** 6C6 and  
 transferrin fragment for treating and diagnosing amyloidosis-associated  
 diseases)
- IT 403973-32-0P  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);  
 DGN (Diagnostic use); PRP (Properties); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (amino acid sequence; chimeric antibody comprising fragment of  
 $\text{anti-}\beta$  -**amyloid** monoclonal

**antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 56645-65-9, Procalcitonin 91448-99-6, Cystatin C  
 RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)  
 (chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 56-87-1, L-Lysine, reactions 112-67-4, Palmitoyl chloride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 20257-67-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 57-88-5, Cholesterol, biological studies 18656-38-7, Dimyristoyl-phosphatidylcholine 61361-72-6, Dimyristoylphosphatidylglycerol  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 403973-33-1  
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)  
 (nucleotide sequence; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 403974-94-7, 3: PN: WO0221141 SEQID: 3 unclaimed DNA  
 RL: PRP (Properties)  
 (unclaimed nucleotide sequence; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

IT 403974-95-8  
 RL: PRP (Properties)  
 (unclaimed protein sequence; chimeric antibody comprising fragment of **anti- $\beta$ -amyloid** monoclonal **antibody** 6C6 and transferrin fragment for treating and diagnosing amyloidosis-associated diseases)

L52 ANSWER 17 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:185883 ZCAPLUS  
 DN 134:236224  
 ED Entered STN: 16 Mar 2001  
 TI Agents and compositions and methods utilizing same useful in diagnosing and/or treating or preventing plaque forming diseases  
 IN Solomon, Beka; Frenkel, Dan; Hanan, Eilat  
 PA Ramot University Authority for Applied Research & Industrial Development, Israel  
 SO PCT Int. Appl., 120 pp.  
 CODEN: PIXXD2  
 DT **Patent**  
 LA English  
 IC ICM C12N

CC 15-2 (Immunochemistry)

Section cross-reference(s): 3, 63

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001018169	A2	20010315	WO 2000-IL518	20000831 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6703015	B1	20040309	US 1999-473653	19991229 <--
	EP 1180938	A2	20020227	EP 2000-954883	20000831 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO				
	JP 2003509020	T2	20030311	JP 2001-522381	20000831 <--
	US 2004013647	A1	20040122	US 2003-384788	20030311 <--
	US 2004052766	A1	20040318	US 2003-618856	20030715 <--
PRAI	US 1999-152417P	P	19990903		<--
	US 1999-473653	A	19991229		<--
	US 2000-629971	A	20000731		<--
	WO 2000-IL518	W	20000831		<--
	US 2001-808037	B2	20010315		<--
	US 2001-830954	A2	20010807		<--
	US 2002-371735P	P	20020412		
	US 2002-162889	A2	20020606		
AB	A method of immunizing against plaque forming diseases using display technol. is provided. The method utilizes novel agents, or pharmaceutical compns. for vaccination against plaque forming diseases which rely upon presentation of an antigen or epitope on a display vehicle. The method further includes agents, or pharmaceutical compns. for vaccination against plaque forming diseases, which rely upon presentation of an antibody, or an active portion thereof, on a display vehicle. Whether antigens or antibodies are employed, disaggregation of plaques results from the immunization.				
ST	prion protein epitope vaccine plaque forming disease; beta amyloid antibody plaque forming disease				
IT	Amyloid				
	RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (A, serum; display vehicles encoding human PrP epitope or <b>anti-β amyloid antibody</b> scFv for diagnosing and/or treating or preventing plaque forming diseases)				
IT	Brain, disease				
	Prion diseases				
	(Creutzfeldt-Jakob; display vehicles encoding human PrP epitope or <b>anti-β amyloid antibody</b> scFv for diagnosing and/or treating or preventing plaque forming diseases)				
IT	Immunoglobulins				
	RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (G, κ light chain; display vehicles encoding human PrP epitope or <b>anti-β amyloid antibody</b> scFv for diagnosing and/or treating or preventing plaque forming diseases)				

- IT Prion diseases  
(Gerstmann-Straeussler-Scheinker disease; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Immunoglobulins  
RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(M; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Amyloidosis  
(SAA; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Proteins, specific or class  
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); MFM (Metabolic formation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); FORM (Formation, nonpreparative); USES (Uses)  
(aggregating; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Primate  
(and human; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Peptides, biological studies  
Proteins, general, biological studies  
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(carrier; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Drug delivery systems  
(carriers, polypeptide; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Proteins, specific or class  
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(coat, bacteriophage; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing and/or treating or preventing plaque forming diseases)
- IT Animal tissue  
Animal virus  
Bacteria (Eubacteria)  
Bacteriophage  
Body fluid  
Cat (Felis catus)  
Cattle  
Coliphage fd  
DNA sequences  
Deer  
Dog (Canis familiaris)  
Elk  
Escherichia coli  
Filamentous bacteriophage  
Molecular cloning  
Monkey

- Multiple myeloma  
 Phage display  
 Protein sequences  
 Sheep  
 Swine  
   (display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing  
 and/or treating or preventing plaque forming diseases)
- IT Prion proteins  
 RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU  
 (Biological study, unclassified); PRP (Properties); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
   (display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing  
 and/or treating or preventing plaque forming diseases)
- IT Antibodies  
 Fusion proteins (chimeric proteins)  
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
   (display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing  
 and/or treating or preventing plaque forming diseases)
- IT Animal virus  
   (double stranded DNA; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)
- IT Immunoassay  
   (enzyme-linked immunosorbent assay; display vehicles encoding human PrP  
 epitope or **anti- $\beta$  amyloid  
 antibody** scFv for diagnosing and/or treating or preventing  
 plaque forming diseases)
- IT Prion diseases  
   (fatal familial insomnia; display vehicles encoding human PrP epitope  
 or **anti- $\beta$  amyloid antibody**  
 scFv for diagnosing and/or treating or preventing plaque forming  
 diseases)
- IT Immunoglobulins  
 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic  
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
   (fragments, scFv; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)
- IT Glycoproteins, specific or class  
 RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
   (gpVIII; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing  
 and/or treating or preventing plaque forming diseases)
- IT Brain, disease  
   (hereditary Icelandic syndrome; display vehicles encoding human PrP  
 epitope or **anti- $\beta$  amyloid  
 antibody** scFv for diagnosing and/or treating or preventing  
 plaque forming diseases)
- IT Prion diseases  
   (kuru; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing  
 and/or treating or preventing plaque forming diseases)
- IT Immunoglobulins  
 RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU  
 (Biological study, unclassified); PRP (Properties); THU (Therapeutic use);



BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
 (light chains, IgG  $\kappa$ ; display vehicles encoding human PrP epitope  
 or **anti- $\beta$  amyloid antibody**  
 scFv for diagnosing and/or treating or preventing plaque forming  
 diseases)

IT Antibodies  
 RL: BPN (Biosynthetic preparation); PRP (Properties); THU (Therapeutic  
 use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (monoclonal; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Animal virus  
 (neg. strand RNA virus; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Brain, disease  
 (plaque forming; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Carriers  
 (polypeptide; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Animal virus  
 (pos.-strand RNA-containing; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Alzheimer's disease  
 (presymptomatic; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Brain, disease  
 Prion diseases  
 (scrapie; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for  
 diagnosing and/or treating or preventing plaque forming diseases)

IT Aging, animal  
 (senility; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for  
 diagnosing and/or treating or preventing plaque forming diseases)

IT Animal virus  
 (single stranded DNA; display vehicles encoding human PrP epitope or  
**anti- $\beta$  amyloid antibody** scFv  
 for diagnosing and/or treating or preventing plaque forming diseases)

IT Brain, disease  
 (spongiform encephalopathy; display vehicles encoding human PrP epitope  
 or **anti- $\beta$  amyloid antibody**  
 scFv for diagnosing and/or treating or preventing plaque forming  
 diseases)

IT Alzheimer's disease  
 (type I; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for diagnosing  
 and/or treating or preventing plaque forming diseases)

IT Alzheimer's disease  
 (type II; display vehicles encoding human PrP epitope or **anti- $\beta$  amyloid antibody** scFv for  
 diagnosing and/or treating or preventing plaque forming diseases)

IT Amyloid  
 RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU  
 (Biological study, unclassified); PRP (Properties); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
( $\beta$ -; display vehicles encoding human PrP epitope or **anti**  
 $\beta$  **amyloid antibody** scFv for  
diagnosing and/or treating or preventing plaque forming diseases)

IT 330489-80-0  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(amino acid sequence; display vehicles encoding human PrP epitope or  
**anti**- $\beta$  **amyloid antibody** scFv  
for diagnosing and/or treating or preventing plaque forming diseases)

IT 91448-99-6P, Cystatin C  
RL: BPN (Biosynthetic preparation); BPR (Biological process); BSU  
(Biological study, unclassified); PRP (Properties); THU (Therapeutic use);  
BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
(display vehicles encoding human PrP epitope or **anti**-  
 $\beta$  **amyloid antibody** scFv for diagnosing  
and/or treating or preventing plaque forming diseases)

IT 134500-80-4P 148439-49-0P 211373-10-3P 312298-34-3P 312298-35-4P  
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);  
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP  
(Preparation); USES (Uses)  
(display vehicles encoding human PrP epitope or **anti**-  
 $\beta$  **amyloid antibody** scFv for diagnosing  
and/or treating or preventing plaque forming diseases)

IT 330489-79-7  
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
(Biological study)  
(nucleotide sequence; display vehicles encoding human PrP epitope or  
**anti**- $\beta$  **amyloid antibody** scFv  
for diagnosing and/or treating or preventing plaque forming diseases)

IT 330490-88-5 330490-89-6 330490-90-9 330490-91-0, 7: PN: WO0118169  
SEQID: 13 unclaimed DNA 330490-92-1, 8: PN: WO0118169 SEQID: 14  
unclaimed DNA  
RL: PRP (Properties)  
(unclaimed nucleotide sequence; agents and compns. and methods  
utilizing same useful in diagnosing and/or treating or preventing  
plaque forming diseases)

IT 122024-47-9 330218-78-5 330218-79-6 330218-80-9 330218-81-0  
330218-82-1 330218-83-2 330218-84-3 330218-85-4 330218-86-5  
330218-87-6 330218-88-7  
RL: PRP (Properties)  
(unclaimed sequence; agents and compns. and methods utilizing same  
useful in diagnosing and/or treating or preventing plaque forming  
diseases)

L52 ANSWER 24 OF 34 ZCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:606944 ZCAPLUS  
DN 131:227675  
ED Entered STN: 24 Sep 1999  
TI Antibodies to  $\beta$ -amyloids or their derivatives and use thereof  
IN Suzuki, Nobuhiro; Odaka, Asano; Kitada, Chieko  
PA Takeda Chemical Industries, Ltd., Japan  
SO U.S., 46 pp.  
CODEN: USXXAM  
DT **Patent**  
LA English  
IC ICM C12D021-04  
ICS C07K016-00  
NCL 435070210  
CC 15-3 (Immunochemistry)

## Section cross-reference(s): 4

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5955317	A	19990921	US 1997-986948	19971208 <--
	EP 1308461	A2	20030507	EP 2002-27099	19940124 <--
	EP 1308461	A3	20040211		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
PRAI	JP 1993-10132	A	19930125	<--	
	JP 1993-19035	A	19930205	<--	
	JP 1993-286935	A	19931116	<--	
	JP 1993-334733	A	19931228	<--	
	JP 1993-286985	A	19931116	<--	
	JP 1993-334773	A	19931228	<--	
	EP 1994-904758	A3	19940124	<--	
AB	According to this invention, antibodies which are useful and novel in that they have binding specificity to $\beta$ -amyloids or derivs. thereof, namely recognize the N-terminal, the C-terminal or central portions of the $\beta$ -amyloids, resp., were obtained. By combining these antibodies, determination methods by which the $\beta$ -amyloids could be determined sensitively and specifically are provided. These determination methods are useful for diagnosis of diseases to which the $\beta$ -amyloids or their derivs. are related (for example, Alzheimer's disease), and the antibodies of this invention are useful for the development of preventive-therapeutic compns. for Alzheimer's disease.				
ST	monoclonal antibody beta amyloid Alzheimer disease				
IT	<b>Alzheimer's disease</b>				
	Hybridoma				
	Protein sequences				
	(monoclonal antibodies to $\beta$ -amyloids or their derivs. for diagnosis and development of therapeutic of Alzheimer's disease)				
IT	<b>Antibodies</b>				
	RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(monoclonal; monoclonal antibodies to $\beta$ -amyloids or their derivs. for diagnosis and development of therapeutic of Alzheimer's disease)				
IT	Mental disorder				
	(senile psychosis; monoclonal antibodies to $\beta$ -amyloids or their derivs. for diagnosis and development of therapeutic of Alzheimer's disease)				
IT	Amyloid				
	RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)				
	( $\beta$ -; monoclonal antibodies to $\beta$ -amyloids or their derivs. for diagnosis and development of therapeutic of Alzheimer's disease)				
IT	<b>107761-42-2P</b> , Glycopeptide (human clone 9-110 amyloid A4 peptide moiety) 109770-29-8P, 1-28-Glycopeptide (human clone 9-110 amyloid A4 peptide moiety) 112163-49-2P 115427-62-8P 131438-74-9P 131438-79-4P 131580-10-4P 131580-11-5P 131602-53-4P 134500-80-4P 145110-15-2P, Glycopeptide (Macaca fascicularis amyloid A4 peptide moiety) 158702-36-4P				
	RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); <b>BIOL (Biological study)</b> ; PREP (Preparation); <b>USES (Uses)</b>				
	(monoclonal antibodies to $\beta$ -amyloids or their derivs. for diagnosis and development of therapeutic of Alzheimer's disease)				
RE.CNT	8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD				
RE					

- (1) Anon; WO 8906242 1989 ZCAPLUS
  - (2) Anon; WO 9209699 1992 ZCAPLUS
  - (3) Anon; Supplemental European Search Report mailed Jan 26 1998 application No 94904758 3
  - (4) Ghiso; Biochem J 1992, V288, P1053 ZCAPLUS
  - (5) Morris; Neurology 1989, V39, P1159 MEDLINE
  - (6) Seubert; Nature 1992, V359, P325 ZCAPLUS
  - (7) Seubert; Nature 1992, V359, P332
  - (8) Suzuki; US 5750349 1998 ZCAPLUS
- L52 ANSWER 27 OF 34 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN
- AN 97229491 EMBASE
- DN 1997229491
- TI The recognition of haemoglobin by antibodies raised for the immunoassay of  $\beta$ -amyloid.
- AU Cutler P.; Brown F.; Camilleri P.; Carpenter D.; George A.; Gray C.; Haran M.; Stewart B.
- CS P. Cutler, Smithkline Beecham Pharmaceuticals, New Frontiers Science Park, Cold Harbour Road, The Pinnacles, Harlow, Essex CM19 5AD, United Kingdom
- SO FEBS Letters, (1997) 412/2 (341-345).  
Refs: 19  
ISSN: 0014-5793 CODEN: FEBLAL
- PUI S 0014-5793(97)00696-0
- CY Netherlands
- DT Journal; Article
- FS 008 Neurology and Neurosurgery  
025 Hematology  
029 Clinical Biochemistry
- LA English
- SL English
- AB Canine and porcine cerebrospinal fluid (CSF) were fractionated by size exclusion chromatography and analysed by a luminescence enzyme linked immunosorbent assay (ELISA) configured to detect  $\beta$ -amyloid. A peak of activity was observed in the CSP consistent with the molecular weight of  $\beta$ -amyloid. When CSF contaminated with blood was analysed an additional peak of immunoreactivity at a higher molecular weight was observed. The peak of activity was found to be derived from cross-reactivity of the immunoglobulins employed in the ELISA with haemoglobin. These findings are discussed with reference to primary and structural sequence homology between  $\beta$ -amyloid and haemoglobin from a number of species, the known properties of  $\beta$ -amyloid and recent clinical reports.
- CT Medical Descriptors:  
\*enzyme linked immunosorbent assay  
\*protein analysis  
**alzheimer disease: DI, diagnosis**  
animal tissue  
article  
cattle  
controlled study  
cross reaction  
dog  
gel permeation chromatography  
human  
human tissue  
nonhuman  
priority journal  
swine  
Drug Descriptors:

**\*amyloid beta protein: EC, endogenous compound**

**\*antibody**

**\*hemoglobin**

RN (amyloid beta protein) 109770-29-8; (hemoglobin) 9008-02-0

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on STN

AN 94176340 EMBASE

DN 1994176340

TI Early diagnosis of Alzheimer's [10].

AU Kishikawa M.; Iseki M.; Sakae M.; Kawaguchi S.; Fujii H.; Talamo B.R.

CS Department of Pathology, SDCABD, Nagasaki Univ. School of Medicine, 1-12-4  
Sakamoto, Nagasaki 852, Japan

SO Nature, (1994) 369/6479 (365-366).

ISSN: 0028-0836 CODEN: NATUAS

CY United Kingdom

DT Journal; Letter

FS 005 General Pathology and Pathological Anatomy

008 Neurology and Neurosurgery

LA English

CT Medical Descriptors:

**\*alzheimer disease: DI, diagnosis**

**\*neurofibrillary tangle**

**\*olfactory epithelium**

**\*olfactory nerve**

early diagnosis

hippocampus

human

immunohistology

letter

priority journal

Drug Descriptors:

**\*amyloid beta protein: EC, endogenous compound**

**\*antibody**

**\*tau protein: EC, endogenous compound**

RN (amyloid beta protein) 109770-29-8

L52 ANSWER 33 OF 34 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

AN 90336517 EMBASE

DN 1990336517

TI Detection and quantitation of amyloid B-peptide with 2 monoclonal  
antibodies.

AU Kim K.S.; Wen G.Y.; Bancher C.; Chen C.M.J.; Sapienza V.J.; Hong H.;  
Wisniewski H.M.

CS New York State Institute for Basic Research in Developmental Disabilities,  
1050 Forest Hill Road, Staten Island, NY 10314, United States

SO Neuroscience Research Communications, (1990) 7/2 (113-122).

ISSN: 0893-6609 CODEN: NRCOEE

CY United Kingdom

DT Journal; Article

FS 002 Physiology

005 General Pathology and Pathological Anatomy

008 Neurology and Neurosurgery

020 Gerontology and Geriatrics

032 Psychiatry

LA English

CT Medical Descriptors:

**\*alzheimer disease: DI, diagnosis**

**\*senile plaque**

cytochemistry

human cell

human

article

Drug Descriptors:

**\*amyloid**

**\*antibody**

RN (amyloid) 11061-24-8

L52 ANSWER 34 OF 34 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

AN 89128239 EMBASE

DN 1989128239

TI An antiserum against amyloid  $\beta$ -protein precursor detects a unique  
peptide in Alzheimer brain.

AU Cole G.; Masliah E.; Huynh T.V.; DeTeresa R.; Terry R.D.; Okuda C.; Saitoh  
T.

CS Department of Neurosciences, University of California, School of Medicine,  
La Jolla, San Diego, CA 92093, United States

SO Neuroscience Letters, (1989) 100/1-3 (340-346).

ISSN: 0304-3940 CODEN: NELED5

CY Netherlands

DT Journal

FS 008 Neurology and Neurosurgery

029 Clinical Biochemistry

LA English

SL English

AB An antiserum was raised against an amino acid sequence predicted from the  
DNA sequence of amyloid  $\beta$ -protein precursor (ABPP), and it was then  
affinity-purified. This affinity-purified antibody (anti-GID) intensely  
stained neurons and dystrophic neurites in plaques of Alzheimer's disease  
(AD) patients, but marginally stained neurons of age-matched normal  
individuals. Anti-GID antibody detected a series of protein bands with a  
molecular weight centered at 100,000 and a second band at 55,000 on a blot  
of the human brain particulate fraction. It also stained a set of bands  
with a molecular weight around 95,000 and a doublet of M(r) 16,000 in the  
soluble fraction. A band at M(r) 35,000 was detected in the soluble  
fraction prepared from brain tissue of AD patients but not from control  
brain tissue. A strong immunostaining of AD sections with anti-GID and the  
presence of a M(r) 35,000 band unique to AD might reflect an altered  
processing of ABPP in AD brains.

CT Medical Descriptors:

**\*alzheimer disease: DI, diagnosis**

**\*alzheimer disease: ET, etiology**

**\*senile plaque**

autopsy

histochemistry

immunoblotting

controlled study

clinical article

human cell

human

priority journal

Drug Descriptors:

**\*amyloid**

**\*antibody**

RN (amyloid) 11061-24-8

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